

\$%^STN;HighlightOn= ***;HighlightOff=*** ;

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RKK

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 19	APOLLIT offering free connect time in April 2003
NEWS	28	Mar 20	EVENTLINE will be removed from STN
NEWS	29	Mar 24	PATDPAFULL now available on STN
NEWS	30	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	31	Mar 24	Indexing from 1957 to 1966 added to records in CA/CAPLUS
NEWS EXPRESS		April 4	CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information

NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:57:33 ON 10 APR 2003

=> file agricola biosis embase caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'AGRICOLA' ENTERED AT 15:57:45 ON 10 APR 2003

FILE 'BIOSIS' ENTERED AT 15:57:45 ON 10 APR 2003

COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'EMBASE' ENTERED AT 15:57:45 ON 10 APR 2003

COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'CAPLUS' ENTERED AT 15:57:45 ON 10 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s spinach and transform? and agrobacterium and apical

L1 3 SPINACH AND TRANSFORM? AND AGROBACTERIUM AND APICAL

=> d l1 1-3

L1 ANSWER 1 OF 3 AGRICOLA

AN 1998:63490 AGRICOLA

DN IND21380124

TI Shoot regeneration from cultured root explants of ***spinach***
(Spinacia oleracea L.): a system for ***Agrobacterium***
transformation

AU Knoll, K.A.; Short, K.C.; Curtis, I.S.; Power, J.B.; Davey, M.R.

AV DNAL (QK725.P54)

SO Plant cell reports, Dec 1997. Vol. 17, No. 2. p. 96-101

Publisher: Berlin, W. Ger. : Springer International.

CODEN: PCRPD8; ISSN: 0721-7714

NTE Includes references

CY Germany

DT Article

FS Non-U.S. Imprint other than FAO
LA English

L1 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:83806 BIOSIS
DN PREV199800083806
TI Shoot regeneration from cultured root explants of ***spinach***
(*Spinacia oleracea* L.): A system for ****Agrobacterium****
transformation
AU Knoll, K. A.; Short, K. C.; Curtis, I. S.; Power, J. B.; Davey, M. R. (1)
CS (1) Plant Genetic Manipulation Group, Dep. Life Sci., Univ. Nottingham,
University Park, Nottingham NG7 2RD UK
SO Plant Cell Reports, (Dec., 1997) Vol. 17, No. 2, pp. 96-101.
ISSN: 0721-7714.
DT Article
LA English

L1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
AN 1998:42749 CAPLUS
DN 128:86537
TI Shoot regeneration from cultured root explants of ***spinach***
(*Spinacia oleracea*). A system for ****Agrobacterium****
transformation
AU Knoll, K. A.; Short, K. C.; Curtis, I. S.; Power, J. B.; Davey, M. R.
CS Dep. Life Sciences, Nottingham Trent Univ., Nottingham, NG11 8NS, UK
SO Plant Cell Reports (1997), 17(2), 96-101
CODEN: PCRPD8; ISSN: 0721-7714
PB Springer-Verlag
DT Journal
LA English

=> d l1 ab

L1 ANSWER 1 OF 3 AGRICOLA
AB A reliable plant regeneration system is described for the production of
adventitious shoots from root explants of ***spinach***. Explants from
roots of axenic shoots and roots induced on cultured hypocotyl explants
were used for adventitious shoot induction. Explants from ***apical***
, middle and basal root regions were incubated on Nitsch and Nitsch medium
supplemented with alpha-naphthaleneacetic acid, gibberellic acid and
kinetin. Optimum shoot regeneration was from explants of ***apical***
and middle root regions on medium with 20 micromolar alpha-
naphthaleneacetic acid and 5.0 micromolar gibberellic acid. Shoots
originated directly from root tissues without an intervening callus phase.
Adventitious shoots were rooted and were grown to maturity in the
glasshouse. This plant regeneration procedure has been exploited in
preliminary studies of ****Agrobacterium****-mediated
transformation.

=> s spinach and transform? and agrobacterium
L2 44 SPINACH AND TRANSFORM? AND AGROBACTERIUM

=> dplicate remove l2
DPLICATE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> n

N IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> duplicate remove l2

DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, CAPLUS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L2

L3 33 DUPLICATE REMOVE L2 (11 DUPLICATES REMOVED)

=> d l3 1-10

L3 ANSWER 1 OF 33 CAPLUS COPYRIGHT 2003 ACS

AN 2003:77615 CAPLUS

DN 138:148733

TI Gene controlling fruit size and cell division in plants

IN Tanksley, Steven D.

PA USA

SO U.S. Pat. Appl. Publ., 35 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003024013	A1	20030130	US 2001-898659	20010703
PRAI	US 2000-215824P	P	20000705		

L3 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2003 ACS

AN 2002:716499 CAPLUS

DN 137:244849

TI Use of Arabidopsis thaliana tps1 gene encoding trehalose-6-phosphate
synthase as selection markers for transgenic plants with improved stress
resistance

IN Thevelein, Johan; Leyman, Barbara; Van Dijck, Patrick; Avonce, Nelson;
Iturriaga, Gabriel

PA K.U. Leuven Research & Development, Belg.

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002072849	A2	20020919	WO 2002-EP818	20020103
	WO 2002072849	A3	20030206		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI GB 2001-105 A 20010104

L3 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 2002:158008 CAPLUS
DN 136:211940
TI Nucleic acid sequence of novel genetic vector and methods for plant gene
silencing
IN Baulcombe, David Charles; Martin-Hernandez, Ana Montserrat
PA Plant Bioscience Limited, UK
SO PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002016622	A1	20020228	WO 2001-GB3623	20010813
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2001078598	A5	20020304	AU 2001-78598	20010813
PRAI GB 2000-20320	A	20000817			
	WO 2001-GB3623	W	20010813		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 2002:655135 CAPLUS
DN 137:196741
TI Constitutive and inducible promoters of .alpha.-tubulin and phenylalanine
ammonia lyase genes from coffee plants
IN Aldwinckle, Herbert S.; Gaitan, Alvaro L.
PA Cornell Research Foundation, Inc., USA
SO U.S., 48 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6441273	B1	20020827	US 2000-545686	20000407
PRAI US 2000-184934P	P	20000208			

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 2002:685043 CAPLUS
DN 137:205835

TI ***Transformed*** plant having durability to heavy metals and
capability of heavy metal removal
IN Saito, Kazutoshi; Noji, Masaaki; Nakamura, Michiyoshi
PA Japan Science and Technology Corporation, Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002253072	A2	20020910	JP 2001-60795	20010305
PRAI	JP 2001-60795		20010305		

L3 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 2002:847553 CAPLUS
DN 137:366671

TI Increasing the flavonoid content of fruits by coexpression of foreign
genes for chalcone synthase and flavonol synthase
IN Colliver, Steve Peter; Hughes, Stephen Glyn; Muir, Shelagh Rachael;
Verhoeven, Martine Elisa; Van Tunen, Adrianus Johannes
PA Unilever PLC, UK; Unilever N.V.
SO Eur. Pat. Appl., 71 pp.
CODEN: EPXXDW

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1254960	A1	20021106	EP 2002-252967	20020426
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	EP 2001-304009	A	20010502		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 33 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1

AN 2002:375926 BIOSIS
DN PREV200200375926

TI Synthesis of a novel class of polyhydroxyalkanoates in Arabidopsis
peroxisomes, and their use in monitoring short-chain-length intermediates
of beta-oxidation.

AU Arai, Yuko; Nakashita, Hideo (1); Suzuki, Yoshikatu; Kobayashi, Yumiko;
Shimizu, Toshiyuki; Yasuda, Michiko; Doi, Yoshiharu; Yamaguchi, Isamu
CS (1) RIKEN Institute, 2-1 Hirosawa, Wako-shi, Saitama, 351-0198:
nakashi@postman.riken.go.jp Japan

SO Plant and Cell Physiology, (May, 2002) Vol. 43, No. 5, pp. 555-562.
<http://www.pcp.oupjournals.org/>. print.
ISSN: 0032-0781.

DT Article
LA English

L3 ANSWER 8 OF 33 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
2

AN 2002:515559 BIOSIS
DN PREV200200515559

TI Explants of Ri- ***transformed*** hairy roots of ***spinach*** can develop embryogenic calli in the absence of gibberellic acid, an essential growth regulator for induction of embryogenesis from non-
transformed roots.

AU Ishizaki, Takuma (1); Hoshino, Yoichiro; Masuda, Kiyoshi; Oosawa, Katsuji
CS (1) Graduate School of Agriculture, Hokkaido University, Sapporo,
060-8589: gohho@res.agr.hokudai.ac.jp Japan
SO Plant Science (Shannon), (August, 2002) Vol. 163, No. 2, pp. 223-231.
<http://www.elsevier.com/locate/plantsci>. print.
ISSN: 0168-9452.

DT Article
LA English

L3 ANSWER 9 OF 33 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2003:15534 BIOSIS
DN PREV200300015534
TI Strategies to deal with the concern about marker genes in transgenic plants: Some environment-friendly approaches.

AU Jaiwal, Pawan K. (1); Sahoo, Lingaraj; Singh, N. Dolendro; Singh, Rana P.
CS (1) Department of Biosciences, Maharshi Dayanand University, Rohtak, 124 001, India: pkjaiwal@yahoo.com India
SO Current Science (Bangalore), (25 July 2002) Vol. 83, No. 2, pp. 128-136. print.
ISSN: 0011-3891.

DT Article
LA English

L3 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 2001:693528 CAPLUS
DN 135:268166
TI S-adenosyl-L-methionine:phosphoethanolamine N-methyltransferase compositions and methods for modulating lipid biosynthesis in transgenic plants

IN Hanson, Andrew D.; Nuccio, Michael L.; Henry, Susan A.
PA University of Florida, USA; Carnegie Mellon University
SO PCT Int. Appl., 158 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001068870	A2	20010920	WO 2001-US8352	20010315
	WO 2001068870	A3	20020321		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2000-525885 A 20000315

RE.CNT 280 THERE ARE 280 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 13 11-20

L3 ANSWER 11 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 2000:335577 CAPLUS
DN 133:2629
TI Proteins eliciting a hypersensitive response from ***Agrobacterium***
vitis and the genes encoding them and their uses
IN Burr, Thomas J.; Herlache, Thomas C.; Zhang, Hongsheng
PA Cornell Research Foundation, Inc., USA
SO PCT Int. Appl., 157 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000028056	A2	20000518	WO 1999-US26079	19991105
	WO 2000028056	A3	20001005		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1127145	A2	20010829	EP 1999-961589	19991105
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1998-107387P	P	19981106		
	WO 1999-US26079	W	19991105		

L3 ANSWER 12 OF 33 AGRICOLA DUPLICATE 3
AN 1999:75923 AGRICOLA
DN IND22010485
TI An efficient ***Agrobacterium*** tumefaciens-mediated
transformation and regeneration system for cotyledons of
spinach (Spinacia oleracea L.).
AU Zhang, H.X.; Zeevaart, J.A.D.
CS Michigan State University, East Lansing.
SO Plant cell reports, Mar 1999. Vol. 18, No. 7/8. p. 640-645
Publisher: Berlin, W. Ger. : Springer International.
CODEN: PCRPD8; ISSN: 0721-7714
NTE Includes references
CY Germany
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L3 ANSWER 13 OF 33 AGRICOLA DUPLICATE 4
AN 1999:2259 AGRICOLA
DN IND21811119
TI Characterization of a gene for ***spinach*** CAP160 and expression of
two ***spinach*** cold-acclimation proteins in tobacco.
AU Kaye, C.; Neven, L.; Hofig, A.; Li, Q.B.; Haskell, D.; Guy, C.

CS Centre de Cooperation Internationale en Recherche Agronomique pour la
 Developpement, Montpellier, France.
 AV DNAL (450 P692)
 SO Plant physiology, Apr 1998. Vol. 116, No. 4. p. 1367-1377
 Publisher: Rockville, MD : American Society of Plant Physiologists, 1926-
 CODEN: PLPHAY; ISSN: 0032-0889
 NTE Includes references
 CY Maryland; United States
 DT Article; Conference
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

L3 ANSWER 14 OF 33 CAPLUS COPYRIGHT 2003 ACS
 AN 1998:540354 CAPLUS
 DN 130:917
 TI Expression of ***spinach*** betaine aldehyde dehydrogenase gene in
 transgenic tobacco plants
 AU Liang, Zheng; Ma, Deqin; Tang, Lan; Hong, Yiguo; Luo, Ailing; Dai, Xiuyu
 CS Institute of Botany, Academia Sinica, Beijing, 100093, Peop. Rep. China
 SO Shengwu Gongcheng Xuebao (1997), 13(3), 236-240
 CODEN: SGXUED; ISSN: 1000-3061
 PB Kexue Chubanshe
 DT Journal
 LA Chinese

L3 ANSWER 15 OF 33 AGRICOLA DUPLICATE 5
 AN 97:76850 AGRICOLA
 DN IND20600220
 TI Transgenic ***spinach*** plants expressing the coat protein of
 cucumber mosaic virus.
 AU Yang, Y.M.; Al-Khayri, J.M.; Anderson, E.J.
 CS University of Arkansas, Fayetteville, AR.
 AV DNAL (QK725.I43)
 SO In vitro cellular & developmental biology. Plant : journal of the Tissue
 Culture Association, July/Sept 1997. Vol. 33, No. 3. p. 200-204
 Publisher: Columbia, MD : Society for In Vitro Biology.
 CODEN: IVCPEO; ISSN: 1054-5476
 NTE Includes references
 CY Maryland; United States
 DT Article
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

L3 ANSWER 16 OF 33 AGRICOLA DUPLICATE 6
 AN 1998:63490 AGRICOLA
 DN IND21380124
 TI Shoot regeneration from cultured root explants of ***spinach***
 (Spinacia oleracea L.): a system for ***Agrobacterium***
 transformation
 AU Knoll, K.A.; Short, K.C.; Curtis, I.S.; Power, J.B.; Davey, M.R.
 AV DNAL (QK725.P54)
 SO Plant cell reports, Dec 1997. Vol. 17, No. 2. p. 96-101
 Publisher: Berlin, W. Ger. : Springer International.
 CODEN: PCRPD8; ISSN: 0721-7714
 NTE Includes references
 CY Germany
 DT Article

FS Non-U.S. Imprint other than FAO
LA English

L3 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 1996:371936 CAPLUS
DN 125:27695
TI Aldehyde dehydrogenase selectable markers for plant ***transformation***
IN Ursin, Virginia M.
PA Calgene, Inc., USA
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9612029	A1	19960425	WO 1995-US13079	19951012
	W: CA, JP, MX				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5633153	A	19970527	US 1994-324130	19941014
	EP 800583	A1	19971015	EP 1995-937425	19951012
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
PRAI	US 1994-324130		19941014		
	WO 1995-US13079		19951012		

L3 ANSWER 18 OF 33 CAPLUS COPYRIGHT 2003 ACS
AN 1995:795252 CAPLUS
DN 123:221349
TI Molecular cloning and sequence analysis of a ***spinach***
2-oxoglutarate/malate-translocator protein cDNA and manipulation of
plasmids, bacteria, yeasts and plants containing the translocator
IN Fluegge, Ulf-Ingo; Weber, Andreas; Fischer, Karsten
PA Germany
SO Ger., 23 pp.
CODEN: GWXXAW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 4420782	C1	19950817	DE 1994-4420782	19940615
	CA 2192849	AA	19951221	CA 1995-2192849	19950614
	WO 9534654	A1	19951221	WO 1995-EP2319	19950614
	W: AU, CA, HU, JP, KR, RU, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9527924	A1	19960105	AU 1995-27924	19950614
	AU 708654	B2	19990812		
	EP 765393	A1	19970402	EP 1995-923329	19950614
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	HU 76090	A2	19970630	HU 1996-3441	19950614
	JP 09512178	T2	19971209	JP 1995-501650	19950614
	RU 2188866	C2	20020910	RU 1997-100777	19950614
	US 5981219	A	19991109	US 1996-750723	19961212
	US 6225526	B1	20010501	US 1998-191275	19981112
PRAI	DE 1994-4420782	A	19940615		
	WO 1995-EP2319	W	19950614		
	US 1996-750723	A3	19961212		

L3 ANSWER 19 OF 33 CAPLUS COPYRIGHT 2003 ACS
 AN 1995:706890 CAPLUS
 DN 123:134977
 TI In planta expression of cDNA encoding 3-ketoacyl-acyl carrier protein
 synthase III (KAS III) from ***spinach***
 AU Tai, Heeyoung; Jaworski, Jan G.
 CS Department Chemistry, Miami University, Oxford, OH, USA
 SO Plant Lipid Metabolism, [Papers presented at the International Meeting on
 Plant Lipids] -- 11th, Paris, June 26-July 1, 1994 (1995), Meeting Date
 1994, 72-4. Editor(s): Kader, Jean-Claude; Mazliak, Paul. Publisher:
 Kluwer, Dordrecht, Neth.
 CODEN: 61OZAO
 DT Conference
 LA English

L3 ANSWER 20 OF 33 CAPLUS COPYRIGHT 2003 ACS
 AN 1995:328494 CAPLUS
 DN 122:125347
 TI Transgenic organisms containing improved starch yield by
 transformation with ADP-glucose pyrophosphorylase cDNA
 IN Volland, Per; Kleczkowski, Leszek; Olsen, Odd-Arne; Poulsen, Peter;
 Okkels, Finn; Marcussen, Jan
 PA Danisco A/S, Den.
 SO PCT Int. Appl., 87 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9424292	A2	19941027	WO 1994-EP1082	19940407
	WO 9424292	A3	19950601		
	W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE,				
	HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ,				
	PL, PT, RO, RU, SD, SE, SI, SK, TJ, UA, US, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,				
	BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2160159	AA	19941027	CA 1994-2160159	19940407
	AU 9465392	A1	19941108	AU 1994-65392	19940407
	AU 693787	B2	19980709		
	EP 693128	A1	19960124	EP 1994-913121	19940407
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	GB 2291878	A1	19960207	GB 1995-20520	19940407
	GB 2291878	B2	19971210		
	JP 08509121	T2	19961001	JP 1994-522704	19940407
	US 5977437	A	19991102	US 1996-535276	19960205
	US 6379968	B1	20020430	US 1999-335234	19990617
PRAI	GB 1993-7408	A	19930408		
	WO 1994-EP1082	W	19940407		
	US 1996-535276	A1	19960205		

=> s l3 and spinach(w)transform?

L4 0 L3 AND SPINACH(W) TRANSFORM?

=> s sugar(w)beet and transform? and agrobacterium

L5 104 SUGAR(W) BEET AND TRANSFORM? AND AGROBACTERIUM

=> duplicate remove l5

DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L5

L6 81 DUPLICATE REMOVE L5 (23 DUPLICATES REMOVED)

=> s l6 and sugar(w)beet(w)transform?

L7 7 L6 AND SUGAR(W) BEET(W) TRANSFORM?

=> d l7 1-7

L7 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS

AN 2002:658222 CAPLUS

DN 137:196634

TI Method for efficient ***transformation*** of soybean cotyledons by wounding and ***Agrobacterium*** tumefaciens vectors containing transgenes

IN Choi, Yang-Do; Seo, Hak-Soo; Song, Jong-Tae; Cheong, Jong-Joo; Lee, Jong-Seob; Koo, Yeon-Jong

PA Scigen Harvest Co., Ltd., S. Korea

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002066599	A2	20020829	WO 2002-KR232	20020214
	WO 2002066599	A3	20021128		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	KR 2001-7818	A	20010216		

L7 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS

AN 2000:756880 CAPLUS

DN 133:318276

TI Plant ***transformation*** method by embryo iniculation in the seed

IN Risacher, Thierry; Craze, Melanie

PA Rhobio, Fr.

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000063398	A1	20001026	WO 2000-EP4177	20000419
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,			

CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
 ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
 LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 EP 1171621 A1 20020116 EP 2000-935000 20000419
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 BR 2000011140 A 20020226 BR 2000-11140 20000419
 JP 2002541853 T2 20021210 JP 2000-612477 20000419
 PRAI EP 1999-420097 A 19990419
 WO 2000-EP4177 W 20000419
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:666878 CAPLUS
 DN 133:262304
 TI Arabidopsis thaliana chromosome centromere sequences and their use in DNA
 constructs and vectors
 IN Preuss, Daphne; Copenhaver, Gregory; Keith, Kevin
 PA The University of Chicago, USA
 SO PCT Int. Appl., 1451 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000055325	A2	20000921	WO 2000-US7392	20000317
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	BR 2000009119	A	20011226	BR 2000-9119	20000317
	EP 1165792	A2	20020102	EP 2000-916559	20000317
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, FI				
PRAI	US 1999-125219P	P	19990318		
	US 1999-127409P	P	19990401		
	US 1999-134770P	P	19990518		
	US 1999-153584P	P	19990913		
	US 1999-154603P	P	19990917		
	US 1999-172493P	P	19991216		
	WO 2000-US7392	W	20000317		

L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS
 AN 1994:553580 CAPLUS
 DN 121:153580
 TI The effects of acetosyringone and pH on ***Agrobacterium*** mediated

transformation vary according to different ***sugar***
 beet varieties

AU Mian, Asad Jamil
 CS Postgrad. Bot. Dep., Gov. S.E. Coll., Bahawalpur, India
 SO Science International (Lahore) (1993), 5(3), 281-4
 CODEN: SINTE8; ISSN: 1013-5316
 DT Journal
 LA English

L7 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS
 AN 1994:1698 CAPLUS
 DN 120:1698
 TI Factors influencing T-DNA transfer in ***Agrobacterium*** -mediated
 transformation of ***sugar*** ***beet***
 AU Jacq, Benoit; Lesobre, Oliver; Sangwan, Rajbir S.; Sangwan-Norreel,
 Brigitte S.
 CS Lab. AEB, Univ. Picardie, Amiens, 80039, Fr.
 SO Plant Cell Reports (1993), 12(11), 621-4
 CODEN: PCRPD8; ISSN: 0721-7714
 DT Journal
 LA English

L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS
 AN 1993:599030 CAPLUS
 DN 119:199030
 TI Effect of antibiotics on the culture of sugar and fodder beet tissue
 AU Yurkova, G. N.; Chugunkova, T. V.; Shevtsov, I. A.
 CS Inst. Fiziol. Rast. Genet., Kiev, Ukraine
 SO Tsitologiya i Genetika (1993), 27(2), 3-6
 CODEN: TGANAK; ISSN: 0564-3783
 DT Journal
 LA Russian

L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS
 AN 1990:435740 CAPLUS
 DN 113:35740
 TI The molecular biology of plant growth control.
 AU Ryan, Lucy Anne
 CS Counc. Natl. Academic Awards, London, UK
 SO (1988) 252 pp. Avail.: Univ. Microfilms Int., Order No. BRDX87901
 From: Diss. Abstr. Int. B 1990, 50(11), 4853-4
 DT Dissertation
 LA English

=> s 17 and shoot
 L8 3 L7 AND SHOOT

=> d 18 1-3

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS
 AN 2000:756880 CAPLUS
 DN 133:318276
 TI Plant ***transformation*** method by embryo iniculation in the seed
 IN Risacher, Thierry; Craze, Melanie
 PA Rhobio, Fr.
 SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000063398	A1	20001026	WO 2000-EP4177	20000419
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1171621	A1	20020116	EP 2000-935000	20000419
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	BR 2000011140	A	20020226	BR 2000-11140	20000419
	JP 2002541853	T2	20021210	JP 2000-612477	20000419
PRAI	EP 1999-420097	A	19990419		
	WO 2000-EP4177	W	20000419		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1994:553580 CAPLUS

DN 121:153580

TI The effects of acetosyringone and pH on ***Agrobacterium*** mediated
transformation vary according to different ***sugar***
beet varieties

AU Mian, Asad Jamil

CS Postgrad. Bot. Dep., Gov. S.E. Coll., Bahawalpur, India

SO Science International (Lahore) (1993), 5(3), 281-4

CODEN: SINTE8; ISSN: 1013-5316

DT Journal

LA English

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1993:599030 CAPLUS

DN 119:199030

TI Effect of antibiotics on the culture of sugar and fodder beet tissue

AU Yurkova, G. N.; Chugunkova, T. V.; Shevtsov, I. A.

CS Inst. Fiziol. Rast. Genet., Kiev, Ukraine

SO Tsitologiya i Genetika (1993), 27(2), 3-6

CODEN: TGANAK; ISSN: 0564-3783

DT Journal

LA Russian

=> d 17 4-5 ab

L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

AB Explants of five ***sugar*** ***beet*** lines were co-cultivated
with four ***Agrobacterium*** tumefaciens strains (C58, N2/73, A281,
Ach5) under different conditions to assess the effects of acetosyringone

and medium pH on strain virulence as measured by callus induction. Marked differences were obsd. in the response of various ***sugar*** - ***beet*** lines to the four ***Agrobacterium*** strains at three

pH

levels (5.2, 5.5, 5.8) when grown without acetosyringone. It was concluded that all lines except one exhibited good results for the induction of tumors, shoot regeneration and roots when co-cultivated with C58 and N2/73 strains of ***Agrobacterium***. Effective vir induction requires a medium with pH 5.8, although some strains also showed a good response at all pH levels used in the study e.g. C58. A dramatic complete necrosis was obsd. in all ***sugar*** - ***beet*** lines at all pH levels when co-cultivated with the same four ***Agrobacterium*** strains with the addn. of acetosyringone.

L7 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS

AB ***Agrobacterium*** -mediated ***transformation*** of ***sugar*** ***beet*** (Beta vulgaris) was investigated for T-DNA transfer efficiency, using an intron contg. .beta.-glucuronidase gene. Preculture and coculture of hypocotyl and cotyledon explants with acetosyringone upon infection was studied. Seven seed lots which included several hundred genotypes, were screened, and were all susceptible to T-DNA transfer but with variable frequencies. Cotyledon explants were more readily ***transformed*** than those from hypocotyls. ***Transformation*** frequency of hypocotyl explants increased with acetosyringone. Both preculture treatment and acetosyringone improved ***transformation*** in cotyledon explants. Callus assayed with fluorometric procedures confirmed that the GUS gene had been transferred into ***sugar*** ***beet***.

=> d 18 1-3 ab

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB A ***transformation*** method comprising inoculation and co-cultivation of a target tissue, from a target plant, with ***Agrobacterium***, at a time when the target tissue is in its natural plant environment, followed by generation of a transgenic plant via dedifferentiation and regeneration of the target tissue.

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB Explants of five ***sugar*** ***beet*** lines were co-cultivated with four ***Agrobacterium*** tumefaciens strains (C58, N2/73, A281, Ach5) under different conditions to assess the effects of acetosyringone and medium pH on strain virulence as measured by callus induction. Marked differences were obsd. in the response of various ***sugar*** - ***beet*** lines to the four ***Agrobacterium*** strains at three

pH

levels (5.2, 5.5, 5.8) when grown without acetosyringone. It was concluded that all lines except one exhibited good results for the induction of tumors, ***shoot*** regeneration and roots when co-cultivated with C58 and N2/73 strains of ***Agrobacterium***. Effective vir induction requires a medium with pH 5.8, although some strains also showed a good response at all pH levels used in the study e.g. C58. A dramatic complete necrosis was obsd. in all ***sugar*** - ***beet*** lines at all pH levels when co-cultivated with the same four ***Agrobacterium*** strains with the addn. of acetosyringone.

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB Kanamycin at 100-200 .mu.g/mL inhibited rosette formation by fodder beet leaf petiole explants more than by ***sugar*** ***beet*** leaf petiole explants. Thus, kanamycin may be used as marker at 100 .mu.g/mL in fodder beet and at 150 .mu.g/mL in ***sugar*** ***beet***
transformation. Callus formation was more sensitive to kanamycin than ***shoot*** and rosette formation. Carbenicillin and claphoran at 500 .mu.g/mL decreased the frequency of callus formation 4- and 2-fold, resp., on nonselective media and inhibited ***shoot*** initiation less. Claphoran at 500 .mu.g/mL did not inhibit ***shoot*** formation by ***sugar*** ***beet*** explants on selective media with 150 .mu.g kanamycin/mL, where the frequency of rosette formation was .apprx.20%. Thus, claphoran may be used for ***Agrobacterium*** suppression in ***transformations*** using kanamycin.

=> s 17 and explant?

L9 3 L7 AND EXPLANT?

=> d 19 1-3 ab

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB ***Explants*** of five ***sugar*** ***beet*** lines were co-cultivated with four ***Agrobacterium*** tumefaciens strains (C58, N2/73, A281, Ach5) under different conditions to assess the effects of acetosyringone and medium pH on strain virulence as measured by callus induction. Marked differences were obsd. in the response of various ***sugar*** - ***beet*** lines to the four ***Agrobacterium*** strains at three pH levels (5.2, 5.5, 5.8) when grown without acetosyringone. It was concluded that all lines except one exhibited good results for the induction of tumors, shoot regeneration and roots when co-cultivated with C58 and N2/73 strains of ***Agrobacterium***. Effective vir induction requires a medium with pH 5.8, although some strains also showed a good response at all pH levels used in the study e.g. C58. A dramatic complete necrosis was obsd. in all ***sugar*** - ***beet*** lines at all pH levels when co-cultivated with the same four ***Agrobacterium*** strains with the addn. of acetosyringone.

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB ***Agrobacterium*** -mediated ***transformation*** of ***sugar*** ***beet*** (Beta vulgaris) was investigated for T-DNA transfer efficiency, using an intron contg. .beta.-glucuronidase gene. Preculture and coculture of hypocotyl and cotyledon ***explants*** with acetosyringone upon infection was studied. Seven seed lots which included several hundred genotypes, were screened, and were all susceptible to T-DNA transfer but with variable frequencies. Cotyledon ***explants*** were more readily ***transformed*** than those from hypocotyls.

Transformation frequency of hypocotyl ***explants*** increased

with acetosyringone. Both preculture treatment and acetosyringone improved ***transformation*** in cotyledon ***explants***. Callus assayed with fluorometric procedures confirmed that the GUS gene had been transferred into ***sugar*** ***beet***.

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB Kanamycin at 100-200 .mu.g/mL inhibited rosette formation by fodder beet

leaf petiole ***explants*** more than by ***sugar*** ***beet***
 leaf petiole ***explants*** . Thus, kanamycin may be used as marker at
 100 .mu.g/mL in fodder beet and at 150 .mu.g/mL in ***sugar***
 beet ***transformation*** . Callus formation was more
 sensitive to kanamycin than shoot and rosette formation. Carbenicillin
 and claphoran at 500 .mu.g/mL decreased the frequency of callus formation
 4- and 2-fold, resp., on nonselective media and inhibited shoot initiation
 less. Claphoran at 500 .mu.g/mL did not inhibit shoot formation by
 sugar ***beet*** ***explants*** on selective media with
 150 .mu.g kanamycin/mL, where the frequency of rosette formation was
 .apprx.20%. Thus, claphoran may be used for ***Agrobacterium***
 suppression in ***transformations*** using kanamycin.

=> s l7 and tips

L10 0 L7 AND TIPS

=> s l7 and meristem?

L11 0 L7 AND MERISTEM?

=> s spinach(w)hypocotyl(w)segments

L12 3 SPINACH(W) HYPOCOTYL(W) SEGMENTS

=> d l12 1-3

L12 ANSWER 1 OF 3 AGRICOLA

AN 92:80729 AGRICOLA

DN IND92045971

TI Shoot regeneration from ***spinach*** ***hypocotyl***
 segments by short term treatment with 5,6-Dichloro-indole-3-
 acetic
 acid.

AU Mii, M.; Nakano, M.; Okuda, K.; Iizuka, M.

CS Chiba University, Chiba, Japan

AV DNAL (QK725.P54)

SO Plant cell reports, 1992. Vol. 11, No. 2. p. 58-61

Publisher: Berlin, W. Ger. : Springer International.

CODEN: PCRPD8; ISSN: 0721-7714

NTE Includes references.

DT Article

FS Non-U.S. Imprint other than FAO

LA English

L12 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1992:262503 BIOSIS

DN BA93:138828

TI SHOOT REGENERATION FROM ***SPINACH*** ***HYPOCOTYL***

SEGMENTS BY SHORT TERM TREATMENT WITH 5 6 DICHLOROINDOLE-3-ACETIC
 ACID.

AU MII M; NAKANO M; OKUDA K; IIZUKA M

CS FAC. HORTICULTURE, CHIBA UNIV., 648 MATSUDO, CHIBA 271, JPN.

SO PLANT CELL REP, (1992) 11 (2), 58-61.

CODEN: PCRPD8. ISSN: 0721-7714.

FS BA; OLD

LA English

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1992:402735 CAPLUS
 DN 117:2735
 TI Shoot regeneration from ***spinach*** ***hypocotyl***
 segments by short-term treatment with 5,6-dichloroindole-3-acetic
 acid
 AU Mii, M.; Nakano, M.; Okuda, K.; Iizuka, M.
 CS Fac. Hortic., Chiba Univ., Chiba, 271, Japan
 SO Plant Cell Reports (1992), 11(2), 58-61
 CODEN: PCRPD8; ISSN: 0721-7714
 DT Journal
 LA English

=> d 112 1 ab

L12 ANSWER 1 OF 3 AGRICOLA
 AB Factors affecting shoot regeneration from hypocotyl segments of spinach
 (Spinacia oleracea L.) were investigated. When explants were cultured on
 medium containing 10 mg/l IAA for 7 weeks, 3 out of 9 cultivars showed
 relatively high shoot regeneration response (15-35%). The other PGRs
 tested had no effect on shoot regeneration. However, the transfer of
 explants from auxin-containing medium to auxin-free medium 20 d after
 culture induced shoot formation from explants cultured on media containing
 each of the auxin sources tested individually. By applying this short term
 auxin treatment, more than 80% shoot regeneration was obtained on medium
 containing 5-20 mg/l 5,6-Cl2-IAA, compared to less than 30% with 10-20
 mg/l IAA treatment.

=> s 112 and meristem?

L13 0 L12 AND MERISTEM?

=> s agrobacterium and melon and meristem?

L14 3 AGROBACTERIUM AND MELON AND MERISTEM?

=> d 114 1-3

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:977962 CAPLUS
 DN 138:36240
 TI Improved efficiency of regeneration of transgenic plants using
 meristematic or nodal tissue transformed with
 Agrobacterium
 IN Goldman, Stephen L.; Rudrabhatla, Sairam V.
 PA University of Toledo, USA
 SO PCT Int. Appl., 84 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002102979	A2	20021227	WO 2002-US18966	20020614
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2001-298542P P 20010615
US 2002-356563P P 20020211

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2002:158008 CAPLUS

DN 136:211940

TI Nucleic acid sequence of novel genetic vector and methods for plant gene silencing

IN Baulcombe, David Charles; Martin-Hernandez, Ana Montserrat

PA Plant Bioscience Limited, UK

SO PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002016622	A1	20020228	WO 2001-GB3623	20010813
	W:				
				AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:				
				GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
	AU 2001078598	A5	20020304	AU 2001-78598	20010813
PRAI	GB 2000-20320	A	20000817		
	WO 2001-GB3623	W	20010813		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2002:142895 CAPLUS

DN 136:178987

TI Stable transformation of multiple shoot cultures of plants

IN Chang, Yin-Fu; Zhong, Heng; Dunder, Erik Martin; Rouse, Sabrina Noel; Gu, Weining; Boudreau, Eric

PA Syngenta Participations A.-G., Switz.

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002014523	A2	20020221	WO 2001-EP9329	20010810
	WO 2002014523	A3	20030123		
	W:				
				AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,	

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001089800	A5	20020225	AU 2001-89800	20010810
US 2002073445	A1	20020613	US 2001-928614	20010813
PRAI US 2000-224934P	P	20000811		
WO 2001-EP9329	W	20010810		

=> d 114 1-3 ab

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB Methods of efficiently transforming monocotyledonous and dicotyledonous plant tissue and regenerating plants with a very high yield of transgenic plants are described. The method uses ***Agrobacterium*** to transform root or apical ***meristem*** that is then cultured under conditions that generate somatic embryogenesis. The time required for the prodn. of transgenic plants is significantly decreased, while the no. of transgenic plants is significantly increased. These increases are not dependent upon the use of super-virulent ***Agrobacterium*** strains. The invention also relates to an improved technique for in vitro regeneration of mono- and di-cotyledonous plants in a suitable medium contg. a novel growth regulator regime that promotes cell elongation in the prodn. of numerous somatic embryos that are regenerable into fertile plants. Optimization expts. for the transformation of grasses and legumes using a .beta.-glucuronidase reporter gene are described. Efficient genotype-independent regeneration of transgenic corn is demonstrated.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB Provided are insulated DNA vectors which may be based on ***Agrobacterium*** binary vectors. The present invention relates to recombinant, replicable, plant-viral based nucleic acid constructs, and methods of use thereof in silencing genes in plants. The vector comprising a plant active promoter, operably linked to a recombinant tobacco rattle virus (TRV) nucleic acid which may corresponds to all or part of TRV RNA 1. TRV RNA sequence encoding a TRV trans acting factor, and cis acting elements, which confer on the TRV nucleic acid transcript the ability to replicate in the cytoplasm of a plant cell, a heterologous nucleotide sequence which is foreign to said virus (which may be a cloning site, or a targeting sequence which is capable of down-regulating expression of a target gene); and a border sequences which permit the transfer of the transfer nucleotide sequence into a plant cell genome. Preferred vectors include pBTA.DELTA.MP.DELTA.16K or pBTA.DELTA.MP. Also provided are related materials and methods of use of such vectors e.g. to produce a cytoplasmically-replicating RNA which can be used to silence target genes in plants.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AB Multiple shoot structures are induced from plant tissues (e.g., shoot apices or axillary buds on an artificial medium) to produce multiple shoot cultures. These multi-shoot cultures are then transformed by known transformation methods. Plants are subsequently regenerated from the transformed cells. Crops that may be efficiently transformed by this

method include plants normally recalcitrant to transformation such as sugar beet, sunflower, soybean, cotton, tobacco, tomato, peanuts, ***melons***, watermelon, squash, Brassica, and pepper. Thus, the apical or axillary ***meristems*** contg. shoot primordia, leaf primordia, young leaves, and a portion of hypocotyls are excised from germinating seedlings or plantlets of squash (Cucurbita pepo). They are maintained on SM medium, growth under light at 25.degree. and subcultured biweekly; the shoot tip explants are ready for transformation after the first subculture. ***Agrobacterium*** tumefaciens-mediated transformation efficiency using these multiple shoot cultures ranged from 1 to 5%.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	122.05	122.26
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-7.16	-7.16

FILE 'STNGUIDE' ENTERED AT 16:13:55 ON 10 APR 2003
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Apr 4, 2003 (20030404/UP).

=> file agricola biosis embase caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.96	123.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.16

FILE 'AGRICOLA' ENTERED AT 16:23:21 ON 10 APR 2003

FILE 'BIOSIS' ENTERED AT 16:23:21 ON 10 APR 2003
 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'EMBASE' ENTERED AT 16:23:21 ON 10 APR 2003
 COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'CAPLUS' ENTERED AT 16:23:21 ON 10 APR 2003
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s squash and meristem? and agrobacteri?
 L15 5 SQUASH AND MERISTEM? AND AGROBACTERI?

=> duplicate remove l5
 DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L5
L16 81 DUPLICATE REMOVE L5 (23 DUPLICATES REMOVED)

=> l15 duplicate remove
L15 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> duplicate remove l15
PROCESSING COMPLETED FOR L15
L17 5 DUPLICATE REMOVE L15 (0 DUPLICATES REMOVED)

=> d l15 1-5

L15 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 2002:977962 CAPLUS
DN 138:36240
TI Improved efficiency of regeneration of transgenic plants using
meristemetic or nodal tissue transformed with
Agrobacterium
IN Goldman, Stephen L.; Rudrabhatla, Sairam V.
PA University of Toledo, USA
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002102979	A2	20021227	WO 2002-US18966	20020614
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2001-298542P	P	20010615		
	US 2002-356563P	P	20020211		

L15 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 2002:142895 CAPLUS
DN 136:178987
TI Stable transformation of multiple shoot cultures of plants
IN Chang, Yin-Fu; Zhong, Heng; Dunder, Erik Martin; Rouse, Sabrina Noel; Gu, Weining; Boudreau, Eric
PA Syngenta Participations A.-G., Switz.
SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 2002014523	A2	20020221	WO 2001-EP9329	20010810
	WO 2002014523	A3	20030123		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	AU 2001089800	A5	20020225	AU 2001-89800	20010810
	US 2002073445	A1	20020613	US 2001-928614	20010813
PRAI	US 2000-224934P	P	20000811		
	WO 2001-EP9329	W	20010810		

L15 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 2000:264028 CAPLUS
DN 133:220335
TI Evaluation of gibberellin 20-oxidase and rolC genes for dwarfing ornamental plants
AU Curtis, I. S.; Davey, M. R.; Hedden, P.; Phillips, A. L.; Ward, D. A.; Thomas, S. G.; Lowe, K. C.; Power, J. B.
CS Plant Science Division, School of Biological Sciences, University of Nottingham, Nottingham, NG7 2RD, UK
SO Current Plant Science and Biotechnology in Agriculture (1999), 36(Plant Biotechnology and In Vitro Biology in the 21st Century), 123-126
CODEN: CPBAE2; ISSN: 0924-1949
PB Kluwer Academic Publishers
DT Journal
LA English
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
AN 1999:549109 CAPLUS
DN 131:166222
TI A method for the production of transgenic plants using apical shoot tips
IN Trolinder, Norma L.; Koonce, Linda K.; Dever, Jane K.
PA Cotton Incorporated, USA
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 9941975	A1	19990826	WO 1999-US3517	19990218
	W:		AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,		

CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2321044	AA	19990826	CA 1999-2321044	19990218
AU 9926865	A1	19990906	AU 1999-26865	19990218
AU 747514	B2	20020516		
EP 1056334	A1	20001206	EP 1999-907133	19990218

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

JP 2002503487	T2	20020205	JP 2000-532003	19990218
---------------	----	----------	----------------	----------

PRAI US 1998-75261P P 19980219

WO 1999-US3517 W 19990218

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 1999:286099 CAPLUS

DN 130:292448

TI In planta method for the production of transgenic plants using a needleless-hypodermic injection device for delivery of the transforming agent to floral tissues

IN Trolinder, Norma L.; Koonce, Linda

PA Cotton Incorporated, USA

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9920776	A1	19990429	WO 1998-US21627	19981019
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 5994624	A	19991130	US 1997-953987	19971020
	CA 2308702	AA	19990429	CA 1998-2308702	19981019
	AU 9898019	A1	19990510	AU 1998-98019	19981019
	AU 752717	B2	20020926		
	ZA 9809517	A	20000419	ZA 1998-9517	19981019
	EP 1025247	A1	20000809	EP 1998-952283	19981019
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2001520049	T2	20011030	JP 2000-517096	19981019
PRAI	US 1997-953987	A	19971020		
	WO 1998-US21627	W	19981019		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
13.33	136.55

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.16

FILE 'STNGUIDE' ENTERED AT 16:25:56 ON 10 APR 2003
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Apr 4, 2003 (20030404/UP).

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.24	136.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.16

STN INTERNATIONAL LOGOFF AT 16:28:13 ON 10 APR 2003

\$%^STN;HighlightOn= ***;HighlightOff=*** ;

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RKK

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 19	APOLLIT offering free connect time in April 2003
NEWS	28	Mar 20	EVENTLINE will be removed from STN
NEWS	29	Mar 24	PATDPAFULL now available on STN
NEWS	30	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	31	Mar 24	Indexing from 1957 to 1966 added to records in CA/CAPLUS
NEWS	32	Apr 11	Display formats in DGENE enhanced
NEWS EXPRESS		April 4	CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS			STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:03:40 ON 11 APR 2003

=> file agricola biosis embase caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'AGRICOLA' ENTERED AT 14:03:53 ON 11 APR 2003

FILE 'BIOSIS' ENTERED AT 14:03:53 ON 11 APR 2003

COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'EMBASE' ENTERED AT 14:03:53 ON 11 APR 2003

COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'CAPLUS' ENTERED AT 14:03:53 ON 11 APR 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s multiple(w)shoot and transform?

L1 114 MULTIPLE(W) SHOOT AND TRANSFORM?

=> duplicate remove l1

DUPLICATE PREFERENCE IS 'AGRICOLA, BIOSIS, EMBASE, CAPLUS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L1

L2 68 DUPLICATE REMOVE L1 (46 DUPLICATES REMOVED)

=> d l2 1-10 ti

L2 ANSWER 1 OF 68 CAPLUS COPYRIGHT 2003 ACS

T1 Production of ***multiple*** ***shoots*** from thidiazuron-treated
mature embryos and leaf-base/apical meristems of barley (Hordeum vulgare)

L2 ANSWER 2 OF 68 CAPLUS COPYRIGHT 2003 ACS

T1 Novel ***multiple*** ***shoot*** proliferation and regeneration
system for plants

L2 ANSWER 3 OF 68 CAPLUS COPYRIGHT 2003 ACS
 TI Stable ***transformation*** of ***multiple*** ***shoot***
 cultures of plants

L2 ANSWER 4 OF 68 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 1
 TI Genetic ***transformation*** by particle bombardment of cultivated
 jute, Corchorus capsularis L.

L2 ANSWER 5 OF 68 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 2
 TI Competence of oat (Avena sativa L.) shoot apical meristems for integrative
 transformation , inherited expression, and osmotic tolerance of
 transgenic lines containing hva1.

L2 ANSWER 6 OF 68 CAPLUS COPYRIGHT 2003 ACS
 TI Regeneration and ***transformation*** of a roadside tree Pittosporum
 tobira A.

L2 ANSWER 7 OF 68 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 3
 TI Age, position in mother seedling, orientation, and polarity of the
 epicotyl segments of blackgram (Vigna mungo L. Hepper) determines its
 morphogenic response.

L2 ANSWER 8 OF 68 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 4
 TI Culturing shoot-tip clumps of pearl millet (Pennisetum glaucum (L.) R.
 Br.) and optimal microprojectile bombardment parameters for transient
 expression.

L2 ANSWER 9 OF 68 CAPLUS COPYRIGHT 2003 ACS
 TI Establishment of ***multiple*** ***shoot*** clumps from maize (Zea
 mays L.) and regeneration of herbicide-resistant transgenic plantlets

L2 ANSWER 10 OF 68 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
 TI Plant regeneration from seedling explants of common bean (Phaseolous
 vulgaris L.).

=> d 12 3

L2 ANSWER 3 OF 68 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:142895 CAPLUS
 DN 136:178987
 TI Stable ***transformation*** of ***multiple*** ***shoot***
 cultures of plants
 IN Chang, Yin-Fu; Zhong, Heng; Dunder, Erik Martin; Rouse, Sabrina Noel; Gu,
 Weining; Boudreau, Eric
 PA Syngenta Participations A.-G., Switz.
 SO PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE

```

-----
PI  WO 2002014523      A2   20020221      WO 2001-EP9329      20010810
    WO 2002014523      A3   20030123
      W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
          CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
          GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
          LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
          RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
          UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
      RW:  GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
          DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
          BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
    AU 2001089800      A5   20020225      AU 2001-89800      20010810
    US 2002073445      A1   20020613      US 2001-928614      20010813
PRAI US 2000-224934P  P    20000811
    WO 2001-EP9329      W    20010810

```

=> d l10 11-20 ti

L10 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d l1 11-20 ti

```

L1  ANSWER 11 OF 114  AGRICOLA
TI  Vicamine production in ***multiple***      ***shoot***      culture derived
    from hairy roots of Vinca minor.

L1  ANSWER 12 OF 114  AGRICOLA
TI  Regeneration of pigeonpea (Cajanus cajan) from cotyledonary node via
    ***multiple***      ***shoot***      formation.

L1  ANSWER 13 OF 114  AGRICOLA
TI  Stable ***transformation*** via particle bombardment in two different
    soybean regeneration systems.

L1  ANSWER 14 OF 114  AGRICOLA
TI  Stable ***transformation*** of Phaseolus vulgaris via
    electric-discharge mediated particle acceleration.

L1  ANSWER 15 OF 114  AGRICOLA
TI  High efficiency plant regeneration from cotyledons of watermelon
    (Citrullus vulgaris Schrad.).

L1  ANSWER 16 OF 114  AGRICOLA
TI  Efficient shoot regeneration of Brassica campestris using cotyledon
    explants cultured in vitro.

L1  ANSWER 17 OF 114  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI  Age, position in mother seedling, orientation, and polarity of the
    epicotyl segments of blackgram (Vigna mungo L. Hepper) determines its
    morphogenic response.

L1  ANSWER 18 OF 114  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI  Competence of oat (Avena sativa L.) shoot apical meristems for integrative

```

transformation , inherited expression, and osmotic tolerance of transgenic lines containing hval.

L1 ANSWER 19 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Culturing shoot-tip clumps of pearl millet (*Pennisetum glaucum* (L.) R. Br.) and optimal microprojectile bombardment parameters for transient expression.

L1 ANSWER 20 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI In vitro induction and enlargement of apical domes and formation of
multiple ***shoots*** in finger millet, *Eleusine coracana* (L.) Gaertn and crowfoot grass, *Eleusine indica* (L.) Gaertn.

=> d 11 12 18 ab

L1 ANSWER 12 OF 114 AGRICOLA
AB Plant regeneration, which is the major limiting factor for
transformation of *Cajanus cajan*, has been obtained via
multiple ***shoot*** formation from the cotyledonary node region of seedlings germinated on MS medium containing 2 mg l⁻¹ 6-benzylaminopurine. A mass of ***multiple*** ***shoot*** -initials formed at the axillary bud region of the cotyledonary node of the seedlings within two weeks. The cotyledonary node along with the mass of shoot-initials excised from the seedling, continued to form new shoot-initials on MS medium containing 6-benzylaminopurine (2 mg l⁻¹) and supplemented topically with indole-3-acetic acid. The formation of new shoot-initials was also observed from the cotyledonary nodal explant, after cutting off its surface layers to completely remove the pre-existing shoot-initials and culturing it on 6-benzylaminopurine (2 mg l⁻¹) containing medium. The shoots elongated rapidly on basal MS medium and rooted efficiently in MS medium supplemented with indole-3-butyric acid (0.5 mg l⁻¹). The procedure described is efficient, and highly reproducible and a common response was observed for all the six varieties tested.

L1 ANSWER 18 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Three oat (*Avena sativa* L.) cultivars have been successfully
transformed using an efficient and reproducible in vitro culture system for differentiation of ***multiple*** ***shoots*** from shoot apical meristems. The ***transformation*** was performed using microprojectile bombardment with two plasmids (pBY520 and pAct1-D) containing linked (hval-bar) and non-linked (gus) genes. The hval and bar genes cointegrated with a frequency of 100% as expected, and 61.6% of the transgenic plants carried all three genes. Molecular and biochemical analyses in R0, R1 and R2 progenies confirmed stable integration and expression of all transgenes. Localization of the GUS protein in R0 and R1 plants revealed that high-expression of gus occurred in vascular tissues and in the pollen grains of mature flowers. The constitutive expression of HVA1 protein was observed at all developmental stages of transgenic plants, and was particularly stronger during the early seedling stages. R2 progeny of five independent transgenic lines was tested in vitro for tolerance to osmotic (salt and mannitol) stresses. As compared to non-transgenic control plants, transgenic plants maintained a higher growth and showed significantly ($P<0.05$) increased tolerance to stress conditions. Less than 10% of transgenic plants showed symptoms of wilting

or death of leaves and, when these symptoms present were delayed in transgenic plants as compared to 80% of non-transgenic plants, either wilted or died. These symptoms confirmed the increased in vitro tolerance in hva1-expressing transgenic plants to non-transgenic plants, providing strong evidence that the HVA1 protein may play an important role in the protection of oats against salinity and possible water-deficiency stress conditions.

=> d 11 19 ti ab

L1 ANSWER 19 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Culturing shoot-tip clumps of pearl millet (*Pennisetum glaucum* (L.) R. Br.) and optimal microprojectile bombardment parameters for transient expression.
AB Microprojectile bombardment and transient expression of the reporter gene, beta-glucuronidase (GUS) in a novel target tissue, ***multiple*** - ***shoot*** -tip clumps of pearl millet (*Pennisetum glaucum* (L.) R. Br.) is reported here. The ***multiple*** - ***shoot*** -tip clumps were developed in vitro from shoot-apices of seedlings. Using this method, the apical meristems along with the germline cells were easily exposed for bombardment without loss of viability. Further growth of the ***multiple*** - ***shoot*** -tip clumps was not substantially affected by microprojectile bombardment. Transient expression of beta-glucuronidase gene was detected in the form of blue ***transformed*** cell sectors in the bombarded tissue by an in situ enzyme assay. The blue sectors were used as convenient criteria to study several factors affecting gene transfer efficiency. Optimal conditions for efficient transient expression of the GUS gene have been defined to aid future strategies of genetic engineering in pearl millet with agronomically important genes.

=> d 11 15 ti ab

L1 ANSWER 15 OF 114 AGRICOLA
TI High efficiency plant regeneration from cotyledons of watermelon (*Citrullus vulgaris* Schrad.).
AB Cotyledons of various ages from seedlings of eight watermelon (*Citrullus vulgaris*) cultivars were cultured on MS medium supplemented with different combinations of phytohormones. High frequency shoot regeneration (60.0-92.0%) was induced from 5-day-old cotyledons of cultivars cultured on MS medium containing 5.0 mg/l 6-benzylaminopurine (BA) and 0.5 mg/l indole-3-acetic acid (IAA). ***Multiple*** ***shoot*** buds elongated on MS medium containing 0.2 mg/l kinetin (KT) and 5-10 shoots per explant could be recovered depending on the cultivars. Elongated shoots rooted on MS medium with 0.1 mg/l alpha-naphthalene acetic acid (NAA). Zeatin riboside (ZT) had a similar efficiency as BA in shoot induction, and it was significantly more functional than 2-isopentenyladenine (2iP) or kinetin (KT). Cotyledons from 5-day-old seedlings were the most responsive to shoot induction.

=> d 11 21-30 ti

L1 ANSWER 21 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Genetic ***transformation*** by particle bombardment of cultivated

jute, *Corchorus capsularis* L.

- L1 ANSWER 22 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Enhanced regeneration of tomato and pepper seedling explants for
Agrobacterium-mediated ***transformation*** .
- L1 ANSWER 23 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Regeneration and shoot multiplication of *Macadamia tetraphylla* L. Johnson.
- L1 ANSWER 24 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Agrobacterium-mediated ***transformation*** of a *Dendrobium* orchid
with the class 1 knox gene DOH1.
- L1 ANSWER 25 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI In vitro propagation of loblolly pine via direct somatic organogenesis
from mature cotyledons and hypocotyls.
- L1 ANSWER 26 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI DOH1, a class 1 knox gene, is required for maintenance of the basic plant
architecture and floral transition in orchid.
- L1 ANSWER 27 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Efficient organogenesis of an Australian passionfruit hybrid (*Passiflora*
edulis X *Passiflora edulis* var. *flavicarpa*) suitable for gene delivery.
- L1 ANSWER 28 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Transgenic *Trifolium repens* with foliage accumulating the high sulphur
protein, sunflower seed albumin.
- L1 ANSWER 29 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI In vitro regeneration and Agrobacterium mediated ***transformation***
in gladiolus.
- L1 ANSWER 30 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Agrobacterium tumefaciens-mediated ***transformation*** and
transgenic-plant regeneration of onion (*Allium cepa* L.

=> d l1 31-40 ti

- L1 ANSWER 31 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Plant regeneration from mature embryo-derived callus of Australian rice
(*Oryza sativa* L.) varieties.
- L1 ANSWER 32 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI In vitro shoot multiplication of *Macadamia tetraphylla* L. Johnson.
- L1 ANSWER 33 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Regeneration of fertile plants from isolated zygotes of rice (*Oryza*
sativa).
- L1 ANSWER 34 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Embryogenic callus formation and plant regeneration from leaf base
segments of barley (*Hordeum vulgare* L.
- L1 ANSWER 35 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Insertion of the maize transposable element Ac into soybean (*Glycine max*

L. Merr.) by Agrobacterium mediated ***transformation*** method.

- L1 ANSWER 36 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Plantlet regeneration from decapitated embryonic axes of pigeonpea (Cajanus cajan (L.) Millsp.
- L1 ANSWER 37 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Comparison of shoot regeneration potential from seedling explants of Austatralian cauliflower (Brassica oleracea var. botrytis) varieties.
- L1 ANSWER 38 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Introduction and expression of marker genes in sandalwood (Santalum album L.) following Agrobacterium-mediated ***transformation*** .
- L1 ANSWER 39 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI In vitro plant regeneration from different seedling explants of blackgram (Vigna mungo (L.) Hepper) via organogenesis.
- L1 ANSWER 40 OF 114 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Anthurium roots for micropropagation and Agrobacterium tumefaciens-mediated gene transfer.

=> s l1 and melon or beet or sunflower

L3 107549 L1 AND MELON OR BEET OR SUNFLOWER

=> s l1 and (melon or beet or sunflower)

L4 3 L1 AND (MELON OR BEET OR SUNFLOWER)

=> d l4 1-3 ti

- L4 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Transgenic Trifolium repens with foliage accumulating the high sulphur protein, ***sunflower*** seed albumin.

- L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Stable ***transformation*** of ***multiple*** ***shoot*** cultures of plants

- L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Transgenic Trifolium repens with foliage accumulating the high sulphur protein, ***sunflower*** seed albumin

=> d l4 1 ti ab

- L4 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Transgenic Trifolium repens with foliage accumulating the high sulphur protein, ***sunflower*** seed albumin.
- AB With the aim of increasing the rumen-protected level of the sulphur amino acids cysteine and methionine in Trifolium repens, we introduced the coding sequence of the ***sunflower*** seed albumin (SSA) into T. repens by Agrobacterium tumefaciens-mediated ***transformation*** . The SSA gene was modified such that the protein would be localized to the endoplasmic reticulum (ER). Four different T-DNA constructions all containing the SSA gene driven by either the promoter of a gene encoding the small subunit of ribulose biphosphate carboxylase (Rubisco) from

Arabidopsis thaliana (Assu), the promoter of the gene encoding the small subunit of Rubisco of Medicago sativa (Lssu), or the Cauliflower Mosaic Virus 35S promoter (CaMV35S), were transferred to T. repens cv. Haifa. Transgenic T0-plants and inter-transgenic hybrids were analyzed for the level of SSA accumulation in the leaves by western blotting. The highest observed level of SSA accumulation was 0.1% of total extractable leaf protein. We observed that the promoter had a substantive effect on the level of SSA accumulation with Assu > CaMV35S > Lssu. Results from the inter-transgenic hybrids showed that the capacity to synthesize SSA was inherited. However the level of SSA accumulation in the leaves generally appears not to be additive with extra transgenic loci. During this work, we attempted to improve the efficiency of A. tumefaciens-mediated ***transformation*** of T. repens using the SAAT-method (Sonication Assisted Agrobacterium-mediated ***Transformation***) on cotyledons of T. repens. T-DNA transfer was in general not enhanced by sonication compared to traditional A. tumefaciens-mediated ***transformation*** . Furthermore, Southern blot analyses of plants regenerated from the same cotyledon after A. tumefaciens treatment and under selection, indicated that ***multiple*** ***shoots*** were usually derived from the same ***transformation*** event. We concluded from these results that only one plant from each A. tumefaciens-treated cotyledon should be taken to avoid transgenic clones.

=> s l1 and unexpected

L5 0 L1 AND UNEXPECTED

=> s l1 and unpredictable

L6 0 L1 AND UNPREDICTABLE

=> s l1 and problem?

L7 0 L1 AND PROBLEM?

=> s l1 and result?

L8 28 L1 AND RESULT?

=> d l8 1-10 ti

L8 ANSWER 1 OF 28 AGRICOLA

TI In vitro propagation of loblolly pine via direct somatic organogenesis from mature cotyledons and hypocotyls.

L8 ANSWER 2 OF 28 AGRICOLA

TI Anthurium roots for micropropagation and Agrobacterium tumefaciens-mediated gene transfer.

L8 ANSWER 3 OF 28 AGRICOLA

TI Efficient Agrobacterium-mediated ***transformation*** of Arabidopsis thaliana using the bar gene as selectable marker.

L8 ANSWER 4 OF 28 AGRICOLA

TI Vicamine production in ***multiple*** ***shoot*** culture derived from hairy roots of Vinca minor.

L8 ANSWER 5 OF 28 AGRICOLA

TI Stable ***transformation*** via particle bombardment in two different soybean regeneration systems.

L8 ANSWER 6 OF 28 AGRICOLA
 TI Efficient shoot regeneration of Brassica campestris using cotyledon explants cultured in vitro.

L8 ANSWER 7 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI In vitro propagation of loblolly pine via direct somatic organogenesis from mature cotyledons and hypocotyls.

L8 ANSWER 8 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Transgenic Trifolium repens with foliage accumulating the high sulphur protein, sunflower seed albumin.

L8 ANSWER 9 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Plant regeneration from mature embryo-derived callus of Australian rice (Oryza sativa L.) varieties.

L8 ANSWER 10 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI Embryogenic callus formation and plant regeneration from leaf base segments of barley (Hordeum vulgare L).

=> d l8 4 ti ab

L8 ANSWER 4 OF 28 AGRICOLA
 TI Vicamine production in ***multiple*** ***shoot*** culture derived from hairy roots of Vinca minor.

AB Characteristics of regenerated plants obtained from hairy roots (Ri-***transformed*** plants) of Vinca minor L., a producer of a pharmaceutically important indole alkaloid, vincamine, were investigated. A previously established Ri- ***transformed*** clone, Vm-101, proliferates rapidly in vitro, displays a high degree of lateral branching and rapid shoot elongation and has a growth index 2.5 times that of an untransformed plant. The addition of 2.2 micromolar benzyladenine to the culture medium increased the shoot number but did not decrease the growth index. Vincamine content in the leaves of in vitro-cultured Vm-101 was twice that in the cultured untransformed plant. These ***results*** suggest that ***multiple*** ***shoot*** culture of Ri-***transformed*** plants may be an excellent tool for in vitro vincamine production.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

FULL ESTIMATED COST

47.53

47.74

STN INTERNATIONAL LOGOFF AT 14:17:16 ON 11 APR 2003